

Hillary Laney, Edward Sanabria, Cindi Kennedy, Brittany Bauerle, Liisa Podosek, & Kalyn Riggs

Introduction

- Implementing best practices in ABA services may not be enough to create lastin change and widespread adoption of interventions by those who regularly interact with the individuals served. Effective treatment packages should also consider social validity and contextual fit to align with evidence-based practices (Slocum al., 2014).
- Skill-Based Treatment (SBT) is an evidence-based intervention that has demonstrated significant social validity across implementers, clients, and familie (Hanley et al., 2014).
- SBT targets core skills of communication, toleration, and cooperation through contingency-based reinforcement thinning, with safety as its top priority (Jessel al., 2018).
- Limited opportunities exist that allow analysis of SBT implementation data on a large scale. This requires capable software, organizational support of the SBT process for appropriate clients, and unified training for clinicians and technicians on the process, app, and online software.
- This study will present and samples from the CareConnect (CC) software at Centria, analyses of SBT implementation data across hundreds of clients, as we as an analysis of social validity from clinicians and staff.

Methodology

Participants

 The 386 participants (ages 2-21) are clients with privately funded ABA services Centria, using CC for SBT. They have ASD diagnoses and histories of highintensity or dangerous behaviors, and issues with reinforcers, transitions, and contextually appropriate behaviors. Clinicians and technicians were trained in C SBT design and use.

Settings

 Centria operates in 13 states, offering ABA services in home, center, and community settings.

Measures:

- Trial-by-trial visual: Correct and incorrect responses for each step of a trial as we and interfering behavior occurrences.
- Progress visual: Highest targeted step per day during SBT sessions.
- Learning opportunities: Average number of trials required to master each step throughout the SBT process.
- SBT Duration (Days): Average number of days in SBT required to master each step throughout the SBT process

Procedure

- Centria launched CC, a proprietary software system to record and analyze SBT data, integrating client treatment plans
- Tech training: 2-hour SBT overview training and 30-minute online training for SE on CareConnect app version.
- Clinician training: 14 or 20 week mentorship including asynchronous, synchrono training as we as live consultation. 2 hour PFA/SBT design meeting to ensure accurate branch development on CC. 30 minute online training for SBT on CC web version, and 30-minute online training for SBT on CC app version.
- Clinicians design branches and assign SBT sessions dosage based on analyzir performance on CareConnect SBT graphs.
- Software capable of integrating multiple branches and multiple technician users. Technicians enter data on HRE, SBT targets, programs, and interfering behavio during each session. SBT targets auto-progress or regress based on client
- responses, and learning opportunities are randomized among active targets. Technicians can skip targets if client behavior indicates it's inappropriate. Clinicians schedule SBT with specific branches in CareConnect, which technicia
- can access and receive prompts to start.
- Centria aggregates data from SBT sessions to inform decisions around software updates and mentorship.



Securita Securita Skill Based Treatment (SBT): On the Effectiveness and Social Validity of Scaling Effective Treatments

| Figure 1 SBT on CareConnect App |
|--|
| 4:29 PM Wed Jul 10 Session Time: 65 Mins Time Remaining: 0 Mins Learning Opportunities Switch Branch +ABC +Interfering Behavior |
| SBT: Structured Learning Total LO 32 Correct LO 26 Interfering Behavior Detracting 0 Pre-cursor 0 High Intensity 0 Dangerous 0 Exit SBT Target for Mastery: Cab1c Image: Cab1 Cab1 Image: Cab1 Cab2 Cab2 Cab2 Cab2 Cab2 Cab3 Cab2a Cab3 Cab2a Cab4 Cab5 Cab6 Image: Cab2 Cab2 Cab2 Cab2 Cab2 Cab2 Cab2 Cab2 |
| Current LO: Cab5e - 8:0-10:0 minutes 1 responses Receptive ID Objects 0% (0/100) |
| Cab3a 2/2 Accuracy |
| Cab3: Cab3a - 1 responses Response Range: 110 Vocal Imitation: Single Words 0% (0/85) |
| SBT Response |
| 2 Correct 0 Incorrect |
| |
| 0% i Assigned LOs 753 0% i Assigned LOs 0 i Assigned LOs 0 i Completed 0 |
| Nate llear image of the app interface for technicians. Visuals for |
| target step in the process, target for mastery, current Learning |
| Opportunity label and data collection, interfering behavior occurrences, and program data collection are provided. |
| |
| |
| |
| Figure 2 SBT trial-by-trial analysis |
| Adult Initiated LO's-Communication |
| Cab6 Cab7 Cab3 Cab3 Cab2 Cab1 TR CFCR SFCR SFCR |
| |
| Note. Sample visual of trial-by-trial visual provided through the SBT for CC web software. Each learning opportunity is |
| represented by a column, where data is presented on the correct or incorrect occurrence of each step within that trial. Data on the |
| occurrence of interfering behavior is indicated at the step of the |
| learning opportunity during which it occurred. |
| |
| Dis |
| Progress display shows highest sub-target in the SBT progression by behaviors, which allow clinicians to quickly assess trends towards material-by-trial displays step progress across branches, indicating when Branch integration with treatment programs allows for streamlined date and the structure of the struct |
| Integration of the data collection system into the clinical software allo time, what stops are targeted for meeters, how loss allows are targeted. |
| time, what steps are targeted for mastery, how long clients are traine step allowing for unique insight into programming. |

• High scores across social validity measures related to the training and outcomes of SBT indicate successful adoption of SBT as a procedure that can be effectively applied to a subset of clients that aligns with the values of the organization.



pranch and date, total learning opportunities, correct responses, and interfering stery across multiple branches.

nterfering behaviors occurred, their intensity, and any skipped targets a collection and accessible instructional notes.

of trials, HRE scoring and guidance, locked access contingent on interfering lata entry within CABs, and instructional notes, facilitating easy implementation

s the organization to monitor how many clients are receiving SBT at any given on each step by days and number of learning opportunities to mastery at each

Implications

Continual analysis of training and support is required to address fidelity of SBT implementation and data collection.

Dashboard summarizing organizational data does not currently integrate overall interfering behavior data for the clients currently in SBT. While individually this is possible through the software, additional measures are needed to see the more effects

Monitoring learning opportunities and days to mastery at each SBT target allows for organizations to monitor the utilization of SBT as an intervention and the effectiveness of implementation based on modifications to training and updates to software.